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(54) Conductive organic compound having a pi-electron resonance structure

(57) A conductive organic compound device structure suitable for constituting an electronic device, such as an organic EL device, is formed by including a pair of oppositely spaced electrodes, and a carrier transporting layer disposed between the electrodes and in contact with one of the electrodes; wherein the carrier transporting layer comprises a conductive organic compound having a π -electron resonance structure in its molecule. In

the device, the π -electron resonance structure plane of the conductive organic compound in the carrier transporting layer is aligned substantially parallel to surfaces of the electrodes. The conductive organic compound is preferably a conductive liquid crystal, such as a discotic liquid crystal or a smectic liquid crystal, and a layer thereof is included in the device, preferably by vacuum deposition.

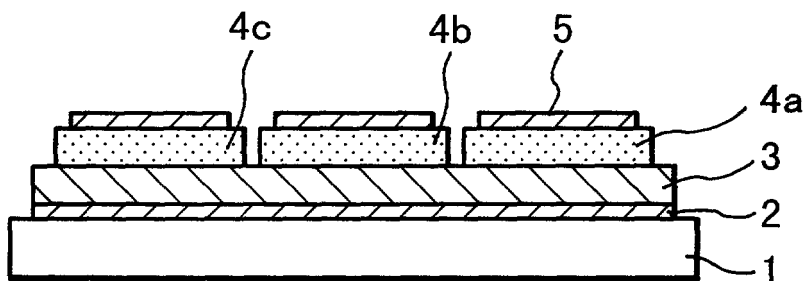


FIG. 2

EP 1 083 613 A3



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EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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X	LUESSEN G ET AL: "LIQUID CRYSTALLINE MATERIALS FOR LIGHT-EMITTING DIODES" POLYMERS FOR ADVANCED TECHNOLOGIES, WILEY & SONS, BOGNOR REGIS, GB, vol. 9, no. 7, July 1998 (1998-07), pages 443-460, XP000774224 ISSN: 1042-7147 * the whole document *	1-14	
			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
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CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

2

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 00 30 7698

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